

**Listing of Claims**

1-33 (Cancelled)

34. (Original) A composition comprising a reproductive cell medium for mammalian, avian, or piscian reproductive cells, wherein the medium comprises a growth factor selected from the group consisting of activated TGF $\beta$ -1, activated TGF $\beta$ -2, and activated IGF-1.
35. (Original) The composition of claim 34, wherein the medium comprises activated TGF $\beta$ -1.
36. (Original) The composition of claim 35, wherein the activated TGF $\beta$ -1 comprises at least about 75% unbound TGF $\beta$ -1.
37. (Original) The composition of claim 35, wherein the activated TGF $\beta$ -1 comprises at least about 90% unbound TGF $\beta$ -1.
38. (Original) The composition of claim 34, wherein the medium comprises activated TGF $\beta$ -2.
39. (Original) The composition of claim 38, wherein the activated TGF $\beta$ -2 comprises at least about 75% unbound TGF $\beta$ -2.
40. (Original) The composition of claim 38, wherein the activated TGF $\beta$ -2 comprises at least about 90% unbound TGF $\beta$ -2.
41. (Original) The composition of claim 34, wherein the medium comprises activated TGF $\beta$ -1 and activated TGF $\beta$ -2.
42. (Original) The composition of claim 41, where the activated TGF $\beta$ -1 comprises at least about 75% unbound TGF $\beta$ -1 and the activated TGF $\beta$ -2 comprises at least about 75% unbound TGF $\beta$ -2.
43. (Original) The composition of claim 41, where the activated TGF $\beta$ -1 comprises at least about 90% unbound TGF $\beta$ -1 and the activated TGF $\beta$ -2 comprises at least about 90% unbound TGF $\beta$ -2.

44. (Original) The composition of claim 34, wherein the medium comprises activated IGF-1.

45. (Original) The composition of claim 44, where the activated IGF-1 comprises at least about 75% unbound IGF-1.

46. (Original) The composition of claim 44, where the activated IGF-1 comprises at least about 90% unbound IGF-1.

47-49. (Cancelled)

50. (Original) A composition comprising sperm cell medium for porcine sperm cells, wherein the medium comprises activated TGF $\beta$ -1, activated TGF $\beta$ -2, and activated IGF-1.

51. (Original) The composition of claim 50, where the activated TGF $\beta$ -1 comprises at least 75% unbound TGF $\beta$ -1, the activated TGF $\beta$ -2 comprises at least 75% unbound TGF $\beta$ -2, and the activated IGF-1 comprises at least 75% unbound IGF-1.

52. (Original) The composition of claim 50, wherein the activated TGF $\beta$ -1 comprises at least 90% unbound TGF $\beta$ -1, the activated TGF $\beta$ -2 comprises at least 90% unbound TGF $\beta$ -2, and the activated IGF-1 comprises at least 90% unbound IGF-1.

53. (Cancelled)